

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P450604

Luminaire Tested: **GALN-SA1B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3785 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

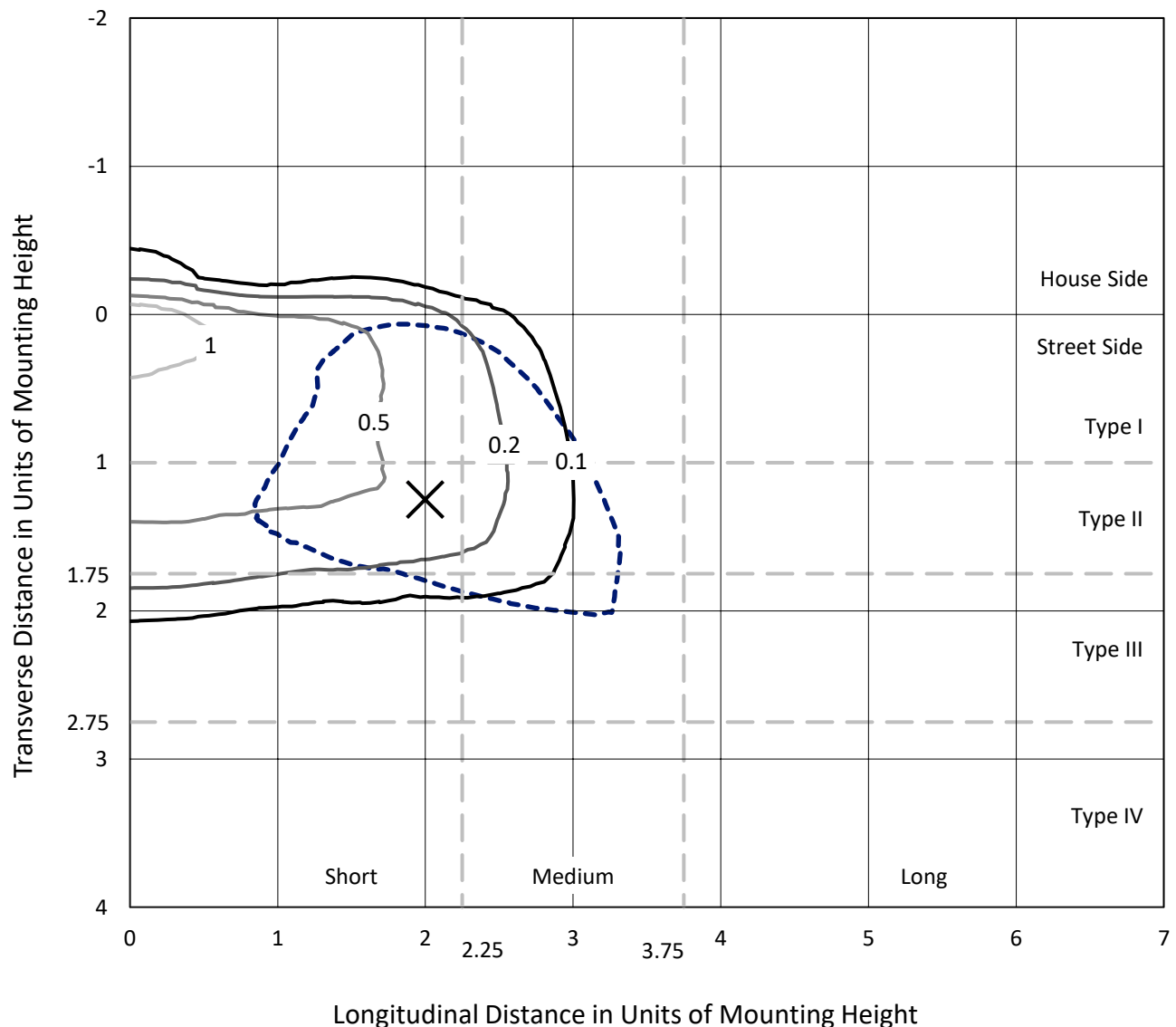


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Iso-Footcandle Lines of Horizontal Illumination

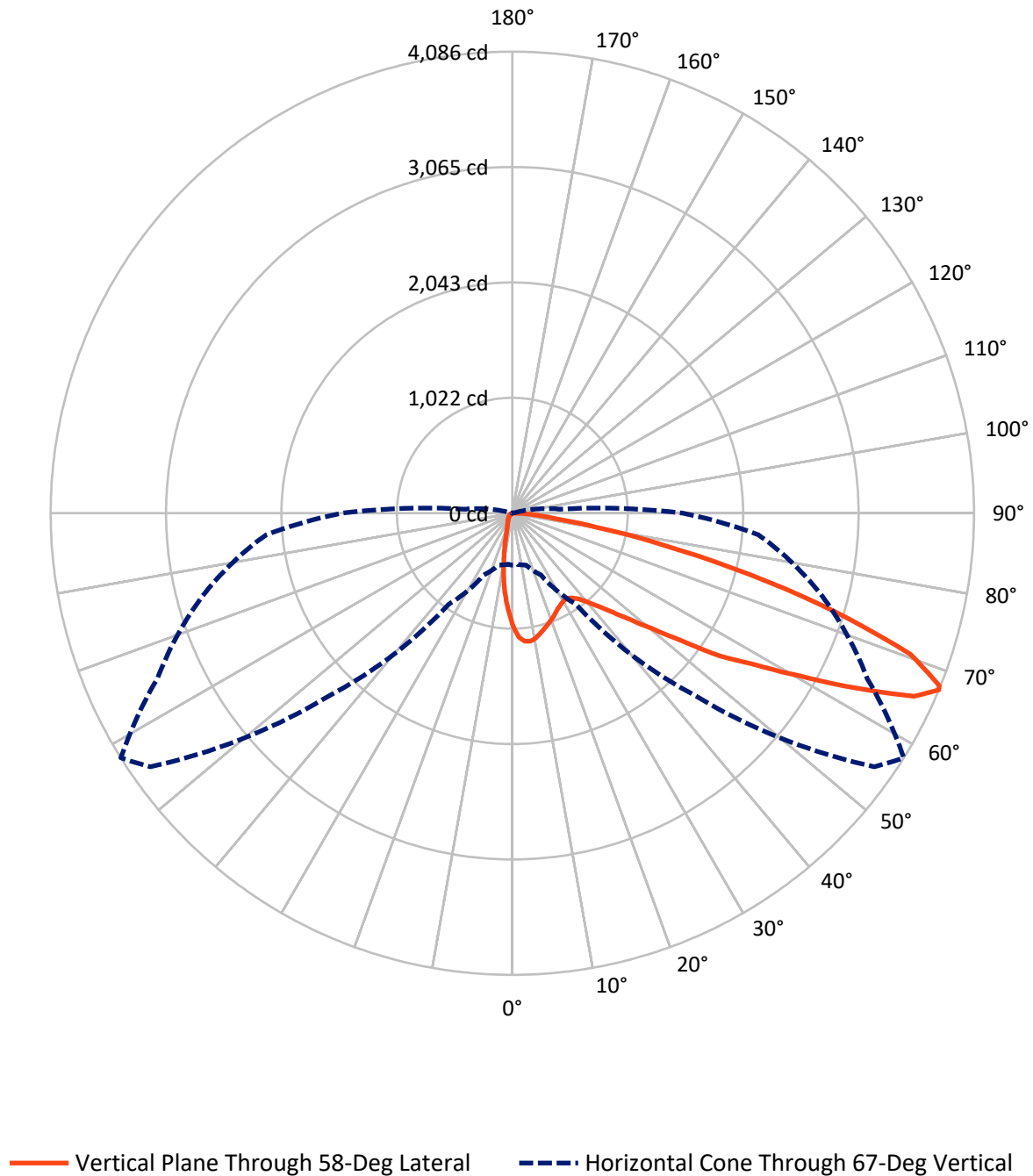
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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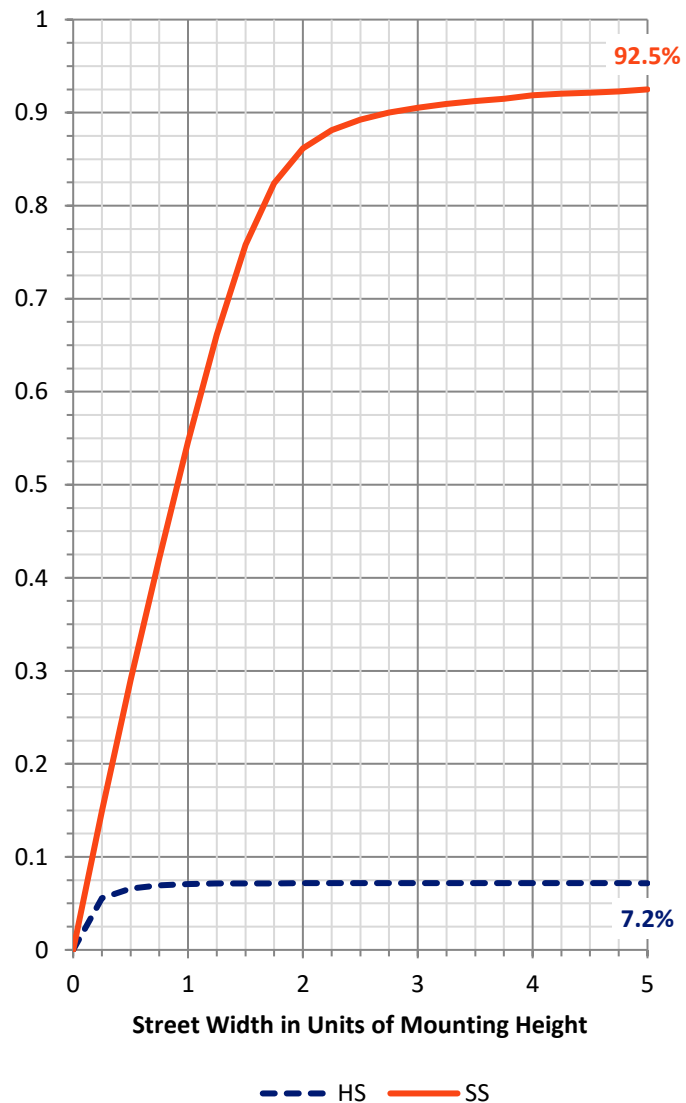
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	273.2	0.0	273.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3511.9	0.0	3511.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	3785.0	0.0	3785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	2.2
10°-20°	175.8	4.6
20°-30°	238.3	6.3
30°-40°	330.5	8.7
40°-50°	527.1	13.9
50°-60°	911.1	24.1
60°-70°	1040.8	27.5
70°-80°	433.9	11.5
80°-90°	46.0	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3785.0	100.0
0°-180°	3785.0	100.0

Coefficient of Utilization



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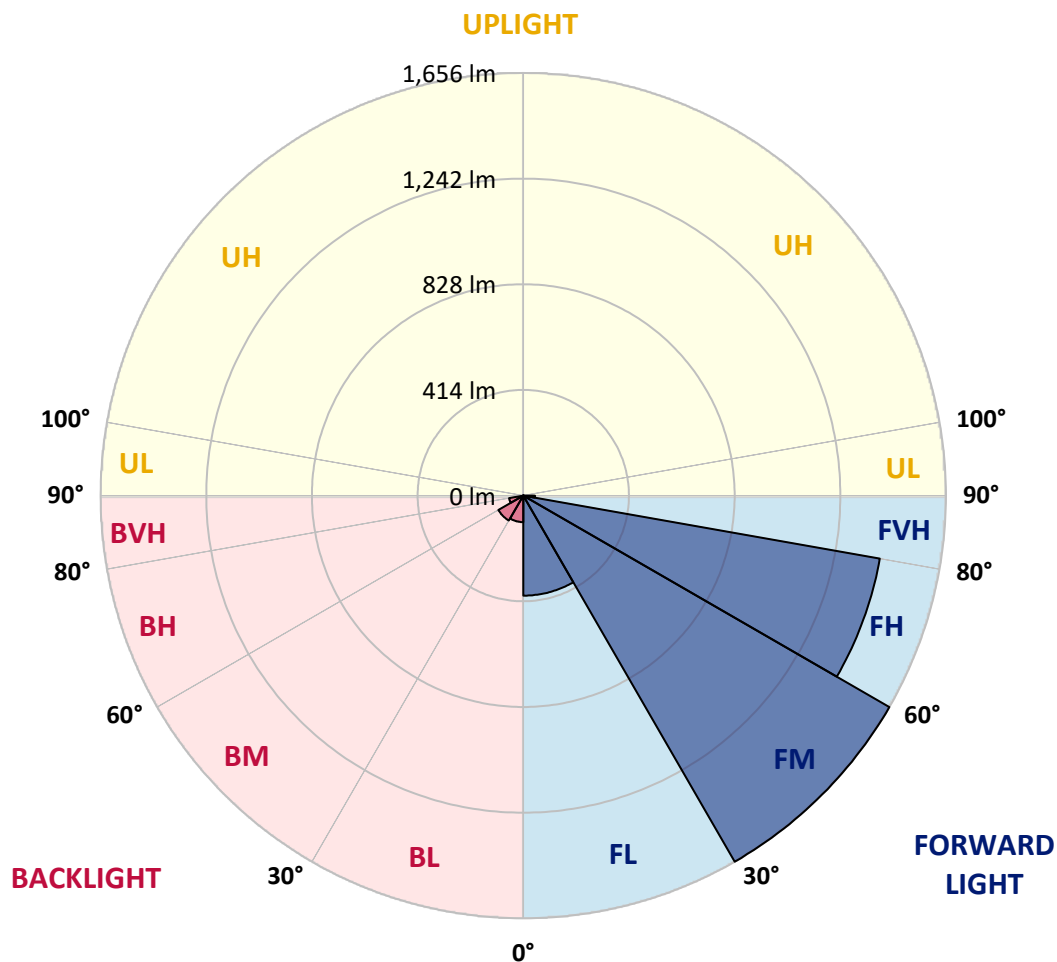
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	391.8	10.4			
FM	(30°-60°)	1656.1	43.8			
FH	(60°-80°)	1418.2	37.5			G1/1800
FVH	(80°-90°)	45.7	1.2			G1/100
BL	(0°-30°)	103.7	2.7	B0/110		
BM	(30°-60°)	112.6	3.0	B0/220		
BH	(60°-80°)	56.5	1.5	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	1164.5	1166.3	1159.7	1154.4	1140.7	1126.0	1106.6	1096.2	1078.5	1047.9	1014.0
5°	1191.8	1194.1	1193.1	1191.8	1186.5	1172.3	1147.5	1138.4	1112.4	1062.6	1001.3
7.5°	1131.1	1139.4	1140.5	1150.3	1159.7	1160.9	1151.6	1144.8	1120.7	1062.3	978.8
10°	1050.7	1056.2	1064.3	1075.7	1098.2	1116.9	1126.0	1125.0	1111.1	1054.5	952.5
12.5°	969.5	972.5	984.9	1004.4	1031.9	1063.8	1088.1	1092.9	1093.2	1045.1	930.5
15°	899.7	898.4	908.0	930.5	969.2	1009.2	1052.7	1060.3	1072.4	1036.0	910.0
17.5°	840.0	846.6	848.1	872.9	908.5	960.4	1015.8	1029.2	1053.4	1028.2	893.1
20°	803.0	806.6	809.9	823.8	855.9	910.5	981.1	999.6	1035.7	1021.1	874.1
22.5°	792.2	794.4	791.7	796.0	818.7	867.3	943.4	968.0	1018.8	1014.5	858.7
25°	800.5	802.8	796.2	791.2	799.0	832.1	907.0	936.8	1005.1	1013.2	847.1
27.5°	820.8	825.1	815.9	806.8	802.3	813.2	878.4	913.1	995.8	1019.3	841.7
30°	852.4	854.9	848.1	836.9	826.6	815.7	863.5	896.6	993.3	1033.5	841.2
32.5°	886.8	892.1	888.3	881.0	867.5	841.7	867.8	897.1	999.3	1054.0	847.6
35°	929.3	935.3	938.9	937.4	920.2	888.0	895.1	919.9	1015.5	1091.6	864.8
37.5°	971.0	976.3	996.3	1003.1	987.9	957.6	948.2	964.7	1051.2	1141.0	895.9
40°	1018.8	1025.9	1054.0	1080.0	1072.7	1040.8	1023.6	1037.3	1105.8	1215.3	954.8
42.5°	1064.6	1077.2	1120.0	1166.0	1172.8	1137.2	1125.8	1130.3	1186.7	1322.3	1037.0
45°	1129.6	1141.5	1196.6	1259.1	1291.2	1263.4	1251.7	1251.0	1297.8	1472.8	1170.3
47.5°	1223.4	1234.0	1299.0	1360.8	1417.9	1421.7	1399.7	1407.3	1437.4	1648.8	1333.7
50°	1338.5	1363.5	1406.3	1470.5	1546.9	1608.6	1615.5	1605.3	1631.1	1852.7	1530.0
52.5°	1505.7	1515.3	1554.5	1607.4	1696.9	1801.6	1882.8	1868.9	1860.8	2047.0	1728.3
55°	1630.4	1643.3	1704.2	1776.8	1908.1	2046.2	2222.2	2227.0	2124.9	2233.6	1922.3
57.5°	1592.7	1612.4	1704.7	1850.7	2139.3	2391.7	2522.7	2526.0	2369.2	2415.0	2141.3
60°	1399.2	1408.6	1540.8	1735.6	2159.0	2766.0	2948.9	2922.3	2617.8	2617.8	2334.8
62.5°	992.2	1006.9	1114.2	1400.7	1949.8	2896.0	3459.3	3404.4	2960.3	2811.8	2450.1
65°	634.1	619.9	691.0	884.2	1452.6	2704.1	3903.7	3907.0	3282.5	2889.5	2387.1
67°	459.3	453.8	474.2	604.5	984.9	2273.1	3913.1	4086.3	3467.7	2840.4	2185.8
67.5°	420.1	424.4	439.3	545.3	894.9	2068.5	3870.6	4075.7	3509.4	2810.8	2113.0
70°	318.4	311.1	327.3	385.7	536.5	1304.9	3329.6	3738.0	3457.5	2517.1	1688.3
72.5°	234.2	233.5	256.0	315.4	413.0	695.0	2499.4	2997.2	2824.7	1916.7	1063.1
75°	158.1	165.2	201.1	263.6	374.3	450.7	1704.0	2174.4	1961.0	1088.4	434.5
77.5°	90.0	90.5	129.5	211.7	336.1	362.7	1009.7	1385.3	1038.0	361.9	129.0
80°	39.0	42.7	64.2	153.8	278.7	321.2	579.0	761.3	419.9	76.6	41.7
82.5°	14.4	16.9	28.3	94.6	203.4	264.6	349.8	363.5	142.4	27.1	26.1
85°	0.0	0.5	10.4	44.3	106.0	118.1	233.7	215.5	63.0	12.9	16.9
87.5°	0.0	0.0	0.0	4.6	13.9	44.0	72.6	80.9	15.2	4.6	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4	1003.4
2.5°	995.8	979.3	938.1	896.9	866.3	840.7	802.3	781.3	770.2	753.7	754.7
5°	970.7	937.4	864.8	789.6	728.9	669.8	598.9	570.4	546.3	532.7	523.6
7.5°	933.6	884.2	776.7	676.6	583.3	479.8	402.2	350.3	315.4	302.5	290.1
10°	892.8	827.3	687.5	548.6	419.1	312.4	246.6	199.1	182.1	166.4	167.9
12.5°	855.2	775.5	605.5	433.0	293.7	198.5	154.8	135.3	129.8	128.0	128.0
15°	824.3	725.9	517.5	325.5	201.3	142.7	123.9	118.6	116.6	116.1	116.1
17.5°	791.4	678.9	438.1	240.5	146.4	119.4	113.1	109.5	108.8	108.3	108.3
20°	762.1	631.6	362.7	179.1	118.4	107.5	103.4	101.2	100.4	99.9	100.2
22.5°	734.3	589.6	291.9	135.3	104.2	97.9	93.8	91.6	90.0	88.8	89.0
25°	709.5	549.1	234.7	110.8	93.8	88.3	84.2	80.9	77.6	76.1	75.9
27.5°	692.0	513.7	182.9	94.8	84.5	78.4	73.3	69.3	65.0	62.7	62.2
30°	677.6	477.8	144.7	83.7	75.1	69.3	63.0	57.2	52.6	50.3	49.3
32.5°	668.2	443.6	114.1	74.6	67.3	60.2	53.1	47.3	42.2	40.0	39.5
35°	666.7	415.1	93.3	67.0	60.2	52.6	45.3	39.0	34.7	32.4	31.9
37.5°	677.6	393.1	78.2	61.0	54.4	46.0	37.9	32.1	28.3	26.6	26.3
40°	706.7	379.1	67.8	55.9	49.1	40.0	32.4	27.3	23.5	21.8	21.8
42.5°	762.1	379.6	61.0	51.1	43.8	34.1	27.6	22.8	19.5	18.0	17.5
45°	848.6	396.8	55.1	46.3	38.7	29.6	23.5	18.7	15.4	14.2	14.2
47.5°	964.4	431.0	50.1	41.5	34.1	25.3	20.0	15.2	12.4	11.1	11.1
50°	1115.9	485.9	45.8	37.4	30.4	21.8	16.2	12.4	9.6	8.6	8.3
52.5°	1274.3	553.7	40.7	33.9	26.1	18.5	13.2	9.6	7.3	6.6	6.3
55°	1449.0	619.9	35.9	30.4	21.2	15.4	10.4	7.6	5.3	4.6	4.6
57.5°	1625.3	684.9	30.1	25.3	16.7	11.4	8.1	5.6	3.5	2.8	2.8
60°	1774.5	705.9	25.5	20.5	12.6	8.1	5.8	3.5	2.0	1.3	1.3
62.5°	1795.0	635.1	21.5	15.7	9.1	5.6	3.0	2.0	0.8	0.5	0.5
65°	1683.7	516.0	18.0	11.9	6.1	2.8	1.3	0.8	0.3	0.0	0.0
67°	1508.7	418.3	14.7	8.9	4.3	1.8	0.8	0.3	0.0	0.0	0.0
67.5°	1464.0	398.9	14.2	8.3	3.8	1.5	0.5	0.3	0.0	0.0	0.0
70°	1148.8	298.7	10.1	5.1	2.3	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	714.0	169.0	7.3	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
75°	269.9	59.2	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	84.0	22.5	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	28.3	8.6	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	3.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)